

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Sandra M. Cooke

GENERAL INFORMATION:

Name:	Owls Head Alloys, Incorporated
Address:	187 Mitch McConnell Drive Bowling Green, Kentucky 42101
Date application received:	May 5, 2006
Source description:	Secondary Aluminum Facility
Source ID #:	21-227-00135
Source A.I. #:	40313
Activity #:	APE20050002 & APE20060001
Permit number:	V-04-058 Revision 1

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__X Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input checked="" type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☒ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

SOURCE DESCRIPTION:

On December 12, 2004, the Division issued the proposed determination on the Title V permit for Owls Head Alloys, Incorporated in Bowling Green, Kentucky, a secondary aluminum scrap processing facility. This permit became final after 45 days. On June 28, 2005, the plant requested the registration of a new piece of equipment as an insignificant activity. The equipment, located outdoors in the scrap yard, is used to break apart the bales of compacted aluminum scrap brought to the facility for processing. The Division determined that although the predicted emissions for the bale breaker are very small, the equipment could not be considered an insignificant activity and the original Title V permit would therefore require a minor revision. However, an additional request from the source was received in May of 2006 to add two Rotary Furnaces and related equipment to the plant and modify certain sections/wording within the existing permit. Since the additions effectively double the source's output, a major permit revision was required. The two applications have therefore been combined in this one revision.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

EP#9 Outside Scrap Bale Breaker

Applicable Regulations: 401 KAR 63:010, Fugitive emissions.

Regulations that may appear to be applicable but are not: 40 CFR 63.1500, Subpart RRR, National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production.

Specific Operating Limitations:

The permittee shall take reasonable precaution to prevent fugitive dust emissions from becoming airborne. Visible dust emissions beyond the property line are prohibited.

[401 KAR 63:010]

The device shall only be used to break apart bales of materials. The device shall not be used to re-size larger, individual pieces of scrap or used as a shredder. The speed of the device shall not increase above 25 rpms.

EPs#10, 11, 12, 13 New Rotary Furnaces And Dross/Salt Cake Handling

Applicable Regulations (Furnaces): 40 CFR part 63, Subpart RRR-National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production

401 KAR 59:010, New process operations

Applicable Regulations (Handling): 401 KAR 63:010, Fugitive emissions

401 KAR 53:010, Ambient air quality standards

401 KAR 59:010, New process operations

Emission Point	Pollutant	Potential (tn/yr)	Controlled (tn/yr)
10 (Rotary Furnace)	PM	113	0.06
	D/F	1.19E-05	1.19E-05
	HCL	1029.31	10.29
	NOx	6.57	6.57
	CO	5.52	5.52
	SO2	0.04	0.04
	VOC	0.36	0.36
	Benzene	1.38E-04	1.38E-04

Emission Point	Pollutant	Potential (tn/yr)	Controlled (tn/yr)
10 (Rotary Furnace) Continued	Formaldehyde	4.93E-03	4.93E-03
	Hexane Naphthalene	1.18E-01	1.18E-01
	Toluene	2.23E-04	2.23E-04
	Lead	3.29E-05	3.29E-05
12 (Dross&Salt Cake Handling/Storage)	PM	2.05E-01	1.02E-04
	PM10	1.02E-01	5.12E-05
11 (Rotary Furnace)	PM	113	0.06
	D/F	1.19E-05	1.19E-05
	HCL	1029.31	10.29
	NOx	6.57	6.57
	CO	5.52	5.52
	SO2	0.04	0.04
	VOC	0.36	0.36
	Benzene	1.38E-04	1.38E-04
	Formaldehyde	4.93E-03	4.93E-03
	Hexane Naphthalene	1.18E-01	1.18E-01
	Toluene	2.23E-04	2.23E-04
	Lead	3.29E-05	3.29E-05
13 (Dross&Salt Cake Handling/ Storage)	PM	2.05E-01	1.02E-04
	PM10	1.02E-01	5.12E-05